

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA1D34SCA + 59HL91002  
**EAN:** 4058352322949 + 4058352341650

**LP-Nummer**  
58920\_15

**Ausführung** eng strahlend, UGR≤22, Abdeckscheibe, PC  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 44200 lm  
Systemleistung = 284.4 W  
Lichtausbeute = 155.4 lm/W

**Seriendokumentation**  
13.06.2019

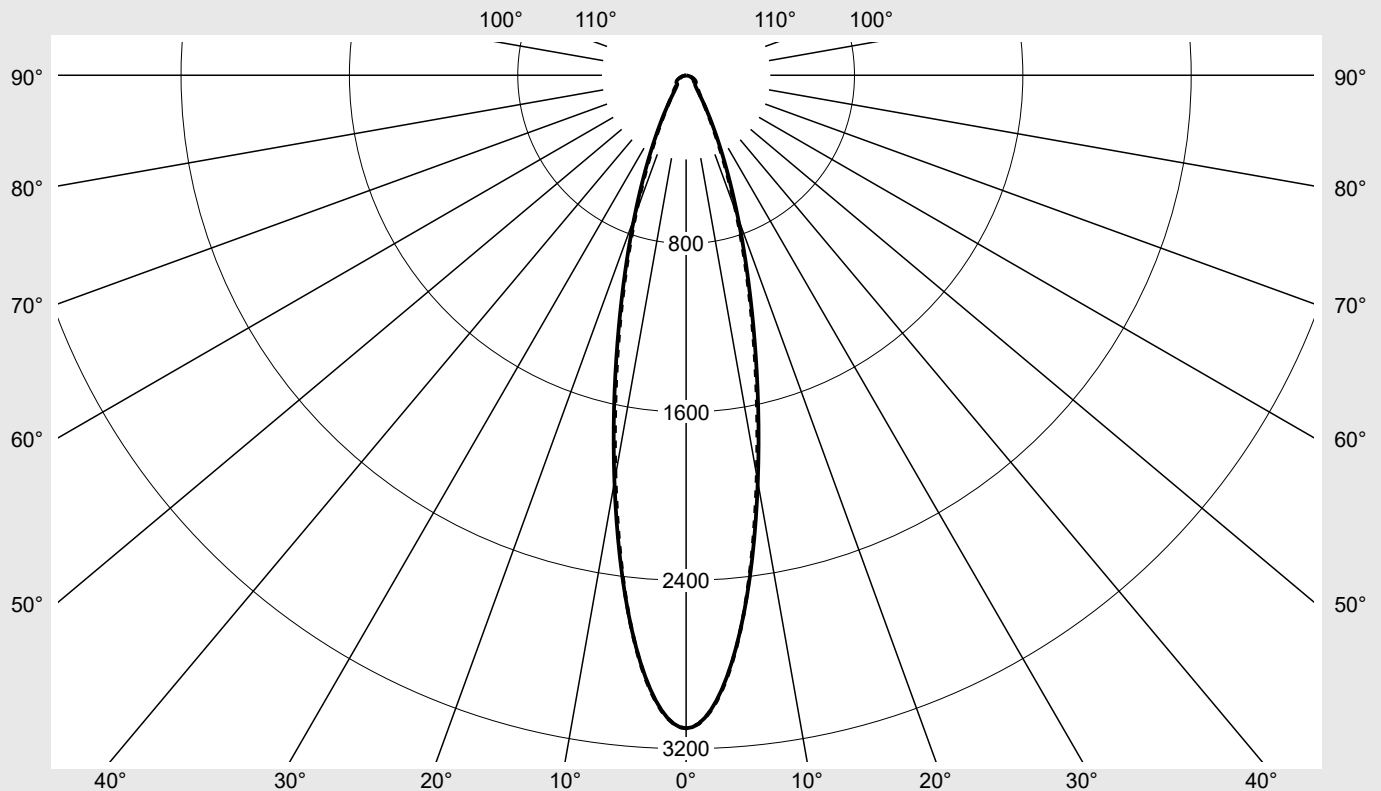
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 3103 cd/klm



#### Klassifizierungen

DIN 5040 A 7 0  
CIE N1=85 N2=94 N3=99  
N4=100 N5=100

#### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

#### Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe	
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			Phi-Zone	Phi-Zone
γ		Lichtstärke in cd/klm						Lichtstrom in lm/klm		
0°	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	18.6	18.6	
5°	2728.1	2725.7	2734.5	2735.8	2731.2	2739.6	2732.7	130.6	149.1	
10°	1961.3	1955.1	1962.7	1959.8	1944.6	1940.4	1933.3	185.8	334.9	
15°	1234.5	1231.5	1237.4	1233.6	1223.5	1217.2	1209.8	174.2	509.0	
20°	720.2	721.2	730.7	731.8	720.5	706.3	696.1	134.9	644.0	
25°	391.5	395.5	407.7	412.0	396.6	377.5	368.6	91.5	735.4	
30°	203.6	206.8	216.0	219.0	212.4	200.7	194.3	57.3	792.7	
35°	109.3	109.5	113.4	118.8	120.5	117.6	115.6	36.3	829.0	
40°	71.8	72.6	76.4	83.5	87.0	87.1	87.3	28.5	857.5	
45°	59.8	60.1	64.9	71.1	68.6	64.2	62.9	25.2	882.8	
50°	58.8	60.0	64.4	66.4	57.1	49.4	48.5	24.6	907.3	
55°	56.5	57.6	60.7	58.9	51.3	43.9	43.6	24.1	931.5	
60°	50.4	50.7	52.1	52.2	45.2	38.5	38.0	22.4	953.8	
65°	40.7	40.4	41.4	42.5	37.1	32.0	31.7	19.0	972.8	
70°	28.4	28.2	29.2	30.2	27.5	24.4	24.3	14.2	987.1	
75°	15.1	15.6	16.5	18.0	16.8	16.4	16.8	8.8	995.8	
80°	5.3	5.6	6.2	6.9	7.4	7.5	9.1	3.7	999.5	
85°	0.5	0.5	0.6	0.8	1.1	1.3	1.8	0.5	1000.0	
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	18,8	20,0	19,2	20,3	20,6	17,8	18,9	18,1	19,2	19,6
	3H	20,3	21,3	20,7	21,6	22,0	19,1	20,2	19,5	20,5	20,9
	4H	20,6	21,6	21,0	21,9	22,3	19,7	20,6	20,1	21,0	21,4
	6H	20,7	21,6	21,2	22,0	22,3	20,0	20,9	20,4	21,2	21,6
	8H	20,8	21,5	21,2	21,9	22,3	20,2	20,9	20,6	21,3	21,7
	12H	20,8	21,4	21,2	21,8	22,2	20,2	20,8	20,6	21,2	21,6
4H	2H	19,5	20,5	19,9	20,8	21,2	18,8	19,7	19,2	20,1	20,5
	3H	21,1	21,9	21,5	22,3	22,7	20,2	21,0	20,7	21,4	21,8
	4H	21,5	22,2	21,9	22,6	23,1	20,8	21,5	21,3	21,9	22,4
	6H	21,6	22,2	22,1	22,7	23,1	21,1	21,7	21,6	22,2	22,7
	8H	21,6	22,1	22,1	22,6	23,1	21,2	21,8	21,7	22,2	22,7
	12H	21,6	22,0	22,1	22,5	23,0	21,2	21,7	21,7	22,1	22,6
8H	4H	21,7	22,2	22,1	22,6	23,1	21,1	21,6	21,5	22,0	22,5
	6H	21,8	22,2	22,3	22,7	23,2	21,4	21,9	21,9	22,3	22,8
	8H	21,8	22,2	22,3	22,7	23,2	21,5	21,9	22,0	22,4	22,9
	12H	21,7	22,1	22,3	22,6	23,1	21,5	21,8	22,0	22,3	22,9
12H	4H	21,7	22,1	22,1	22,6	23,1	21,0	21,5	21,5	21,9	22,4
	6H	21,8	22,2	22,3	22,6	23,2	21,4	21,8	21,9	22,3	22,8
	8H	21,8	22,1	22,3	22,6	23,1	21,5	21,8	22,0	22,3	22,8

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

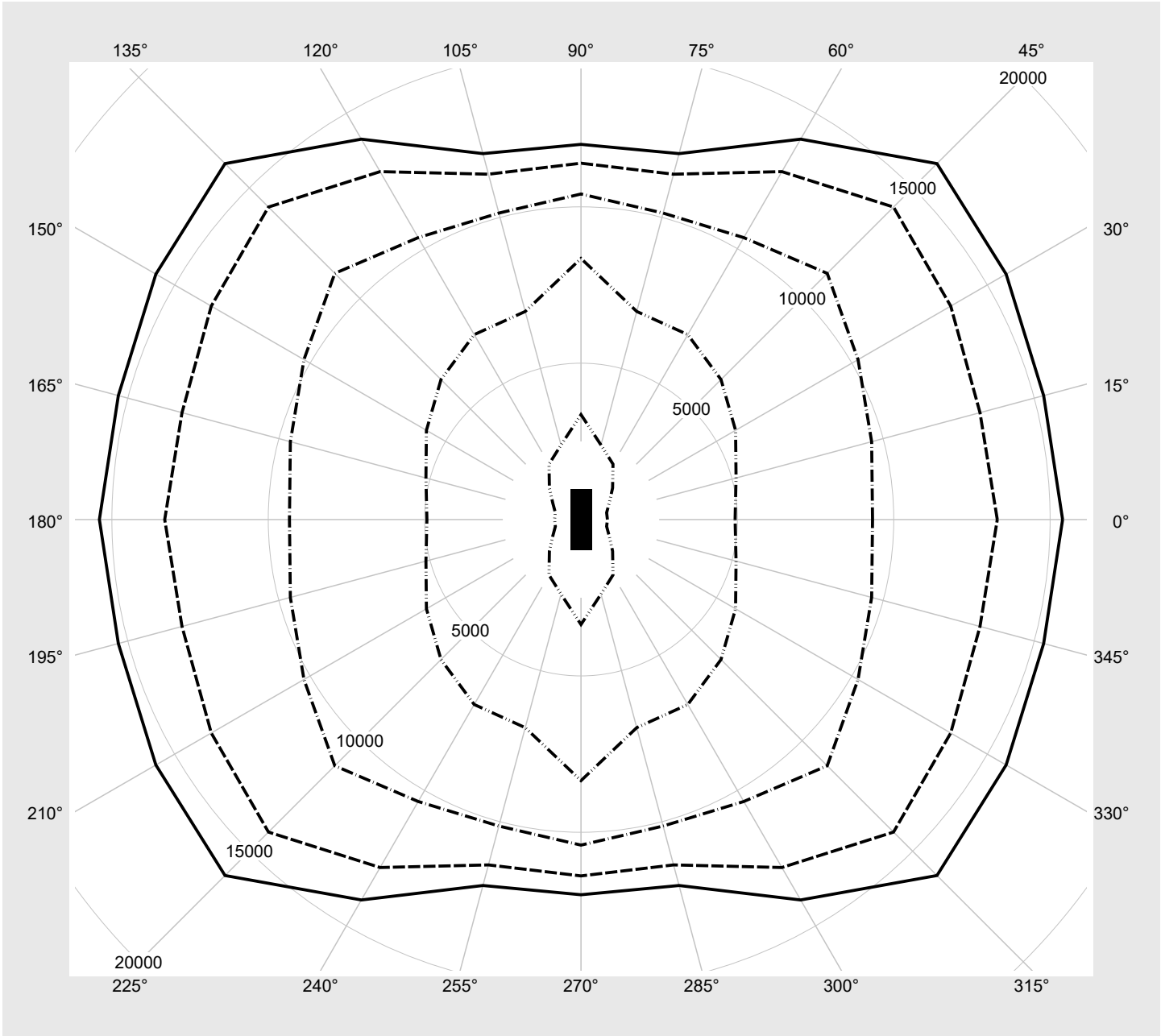
Lichttechnische Abmessungen in mm: L = 885, B = 312

C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		13537.3	13615.9	14688.9	16092.3	15526.8	14542.5	14232.3
50°		14637.2	14937.0	16027.5	16540.8	14228.7	12313.9	12074.1
55°		15765.1	16063.2	16949.3	16445.5	14303.6	12253.1	12175.3
60°		16119.6	16244.8	16692.7	16702.3	14477.2	12321.3	12162.2
65°		15399.3	15315.6	15696.6	16097.0	14045.9	12114.6	11997.6
70°		13310.7	13207.8	13651.0	14132.6	12847.4	11433.0	11395.1
75°		9321.8	9621.1	10229.1	11133.9	10410.3	10146.2	10410.3
80°		4927.2	5132.8	5707.1	6331.2	6829.0	6888.9	8348.2
85°		844.9	848.5	1039.5	1428.9	2046.0	2468.5	3355.6

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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimmstufen-Tabelle</b>		<b>sITeco</b>
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	44200	284.4
95	240	252	41990	269.1
90	227	250	39780	253.8
85	213	248	37570	238.4
80	200	245	35360	223.3
75	187	243	33150	209.0
70	174	240	30940	194.4
65	161	237	28730	180.2
60	148	234	26520	166.3
55	135	231	24310	152.2
50	123	228	22100	138.5
45	110	224	19890	124.8
40	98	220	17680	111.5
35	85	215	15470	98.3
30	73	210	13260	85.3
25	61	204	11050	72.7
20	49	197	8840	59.8
15	37	188	6630	47.3
10	25	177	4419	34.6